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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/052,505	02/01/2002	Sudhendu Rai	D/A1472 (1508/3540)	8789
7590 04/24/2007 Gunnar G. Leinberg, Esq.			EXAMINER	
Nixon Peabody LLP Clinton Square P.O. Box 31051 Rochester, NY 14603-1051			POON, KING Y	
			ART UNIT	PAPER NUMBER
			2625	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		04/24/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)
	10/052,505	RAI ET AL.
Office Action Summary	Examiner	Art Unit
	King Y. Poon	2625
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet wi	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR F WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUNIC CFR 1.136(a). In no event, however, may a roon. period will apply and will expire SIX (6) MON statute, cause the application to become AB	CATION. Peply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status		
1)⊠ Responsive to communication(s) filed on	03 January 2007.	
2a)⊠ This action is FINAL . 2b)□	This action is non-final.	
3) Since this application is in condition for a	llowance except for formal matte	ers, prosecution as to the merits is
closed in accordance with the practice ur	ider <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.
Disposition of Claims		
4) Claim(s) <u>1-33</u> is/are pending in the applict 4a) Of the above claim(s) <u>4-6 and 28-30</u> is 5) Claim(s) is/are allowed. 6) Claim(s) <u>1-3,7-27 and 31-33</u> is/are rejected 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction as	s/are withdrawn from considera	ion.
Application Papers		
9)☐ The specification is objected to by the Exa 10)☒ The drawing(s) filed on 01 February 2002 Applicant may not request that any objection to Replacement drawing sheet(s) including the content of the	is/are: a)⊠ accepted or b)□ on the drawing(s) be held in abeyand correction is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International B * See the attached detailed Office action for	ments have been received. ments have been received in A e priority documents have been ureau (PCT Rule 17.2(a)).	oplication No received in this National Stage
Attachment(s)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-94) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 	.8) Paper No(s	ummary (PTO-413))/Mail Date formal Patent Application

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 2, 3, 7-27, 31-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Simirnov (US 6,279,009) in view of Fight et al (US 6,662,199)

Regarding claims 1, 17: Smirnov teaches a system comprising a server (fig. 5) including a modeling module (model, column 10, lines 1-10, of the model, column 5, lines 20-35) that receives (note) modeling parameters (column 4, lines 16-45) from a remote print shop (remote manufacturing facilities, column 6, lines 24-30, column 9, lines 5-25); and executing a modeling program (column 10, lines 1-10) using the modeling parameters to generate model output data (workflow, column 10, lines 10-20), wherein the modeling program is configured to perform model hypothetical studies based on the model parameters (column 10, lines 10-45).

Note: Simirnov teaches model should be directly, continuously updated with information regarding the real world manufacturing environment, e.g., a resources are taken off or added, column 5, lines 20-35, column 8, lines 20-32. Since the manufacturing environment of the remote print shop/manufacturer is located in the remote print shop/manufacturer, it would have been obvious that the update information are received from the remote print shop/manufacturer.

Although Simirnov's invention is a computer being access by a print shop, and inherently, there are multiple print shops connected by Internet, and inherently, a computer is capable of being accessed by prints shops connected by networks; Simirnov does not specifically teach his system is accessed by plurality of remote print shops.

However, Fight in the same area of a computer (fig. 4) accessed by a print shop (column 14, lines 45-50) of helping the print shop of scheduling a work flow (column 13, lines 50-65, column 1, lines 25-40), teaches the computer is accessed by a plurality of print shops (column 7, lines 60-67), each with different modeling parameters (column 8, lines 1-10).

Since Simirnov's invention is directed to helping print shops scheduling different work flow, each by executing a modeling program using the modeling parameter for each particular work flow (140, 156, fig. 6), it would have been obvious to a person with ordinary skill in the art at the time the invention was made to have modified Simirnov to include: system is accessed by plurality of remote print shops, for each print shop, remotely executing a modeling program using the modeling parameters to generate model output data to increase profit by having more customers (print shops).

Regarding claim 7: Simirnov teaches the step of forwarding the model output data to each respective remote print shop (since the workflow are used to assist the print shop of how a product should be produced, the workflow created are forwarded to the print shop, column 1, lines 18-23).

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Regarding claims 8, 18: Simirnov teaches wherein the modeling parameters include print shop organization information for each respective remote print shop (column 10, lines 25-35).

Regarding claims 9, 19: Simirnov teaches wherein the print shop organization information includes information regarding at least one of cell composition (e.g., 120 a) and the equipment (printer) available in each cell (also see column 8, lines 20-25).

Regarding claims 10, 20: Simirnov teaches wherein the print shop organization information includes at least one of equipment and labor resources available at each print shop, the capacity of the equipment resources, failure history of the equipment, repair history of the equipment, and the production costs per unit time used for each resource including equipment and labor and material parameters (column 8, lines 20-35, column 10, lines 25-35).

Regarding claims 11, 21: Simirnov teaches wherein the modeling parameters include print job requirements (e.g., binding process 30, 32, fig. 2).

Regarding claims 12, 22: Simirnov teaches wherein the print job requirements include at least one of information regarding the number of individual items in the job (e.g., fig. 2, column 7); the number of pages in each item, job name, job identifier, batch size, number of batches and inter-process buffer size.

Regarding claims 13, 23: Simirnov teaches The method of claim 1 wherein the model output data includes at least one of identification of a bottleneck process (column 9, lines 15-25), turnaround time for the print job, optimal batch size, cost of the print job,

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and optimal parameters for the control policy such as a scheduling algorithm, job prioritization data and resource allocation information.

Regarding claims 14, 31: Simirnov teaches receiving performance data for equipment in each print shop (column 9, lines 48-50); saving the performance data to a database (column 10, lines 5-10); retrieving the performance data from the database; and analyzing the performance data of each of the print shops to determine suggested print shop changes (134, fig. 5, column 10, lines 30-35).

Regarding claims 15, 32: Simirnov teaches forwarding (since the workflow are used to assist the print shop of how a product should be produced, the workflow created are forwarded to the print shop, column 1, lines 18-23) the suggested print shop changes (column 10, lines 30-35) to each respective print shop.

Regarding claims 16, 33: Simirnov teaches comprising the step of determining suggested print shop organization revisions (update, column 10, lines 30-35) based upon parameters for a mix of print jobs (fig. 2) and upon each current print shop organization (column 10, lines 25-35).

Regarding claim 24: Simirnov teaches wherein the server further comprises a design module (the software that performs the function of column 10, lines 25-35) adapted to receive print shop organization information and to generate suggested print shop organization revisions from each print shop.

Regarding claim 25: Simirnov teaches wherein the server further comprises a reorganization module (the software that performs the function of column 10, lines 25-

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35, column 9, lines 5-25) adapted to receive parameters regarding a change in print job mix at the print shop and to generate suggestions for reorganizing the print shop.

Regarding claims 2, 3, 26, 27: Smirnov does not teach wherein the modeling parameters are received via the Internet (Web based connection).

Such limitations are taught by Flight (column 7, lines 65-67).

Therefore, it would have been obvious to a person with ordinary skill in the art at the time the invention was made to have modified Smirnov to include: wherein the modeling parameters are received via the Internet to: 1) provide a quickest, easy and cheap way of continuously, remotely updating information to the computer system, and 2) allow the system to service print shops all over the world (globalization).

Response to Arguments

3. Applicant's arguments filed 1/3/2007 have been fully considered but they are not persuasive.

With respect to applicant's argument that Smirnov does not teach a plurality of remote print shops has been considered.

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

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Smirnov teaches a system comprising a server (fig. 5) including a modeling module (model, column 10, lines 1-10, of the model, column 5, lines 20-35) that receives (note) modeling parameters (column 4, lines 16-45) from a remote print shop (remote manufacturing facilities, column 6, lines 24-30, column 9, lines 5-25); and executing a modeling program (column 10, lines 1-10) using the modeling parameters to generate model output data (workflow, column 10, lines 10-20), wherein the modeling program is configured to perform model hypothetical studies based on the model parameters (column 10, lines 10-45).

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Since Simirnov's invention is directed to helping print shops scheduling different work flow, each by executing a modeling program using the modeling parameter for each particular work flow (140, 156, fig. 6), it would have been obvious to a person with ordinary skill in the art at the time the invention was made to have modified Simirnov to include: system is accessed by plurality of remote print shops, for each print shop, remotely executing a modeling program using the modeling parameters to generate model output data to increase profit by having more customers (print shops).

With respect to applicant's disagreement to the official notice and request a prior art to support it, has been considered.

In reply: Smirnov does not teach wherein the modeling parameters are received via the Internet (Web based connection).

Such limitations are taught by Flight (column 7, lines 65-67).

Therefore, it would have been obvious to a person with ordinary skill in the art at the time the invention was made to have modified Smirnov to include: wherein the modeling parameters are received via the Internet to: 1) provide a quickest, easy and cheap way of continuously, remotely updating information to the computer system, and 2) allow the system to service print shops all over the world (globalization).

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to King Y. Poon whose telephone number is 571-272-7440. The examiner can normally be reached on Mon-Fri 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Coles can be reached on 571-272-7402. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

April 22, 2007

KING Y. POON DRIMARY EXAMINER